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MAY 7 1920

UNITED STATES DEPARTMENT OF AGRICULTURE,  
FOREST SERVICE,  
WILLIAM B. GREELEY, Forester.

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# April Field Program, 1920

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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## OFFICE OF THE FORESTER.

WILLIAM B. GREELEY, Forester.

EDWARD A. SHERMAN, Associate Forester.

EDITOR'S OFFICE.—HERBERT A. SMITH, assistant forester in charge.

INFORMATION.—JOHN L. COBBS, JR.

TECHNICAL REVIEW.—L. C. EVERARD.

PROOFS AND FORMS.—C. M. BALLARD.

EXHIBITS.—C. A. LINDSTROM.

DENDROLOGY.—GEORGE B. SUDWORTH, dendrologist.

ACCOUNTS.—M. E. FAGAN, chief.

## OPERATION.

ROY HEADLEY, assistant forester in charge; PAUL D. KELLETER, general assistant; G. G. ANDERSON, assistant in personnel; EVAN W. KELLEY, inspector.

MAINTENANCE.—BILLIE I. SHANNON.

STENOGRAPHY AND TYPEWRITING.—BERTHA E. ADAMS.

SUPPLIES.—S. L. McLAURIN.

SUPPLY DEPOT, OGDEN, UTAH.—A. H. COUSINS, property assistant.

PROPERTY AUDIT, OGDEN, UTAH.—J. G. FALCK, property auditor.

## FOREST MANAGEMENT.

E. E. CARTER, assistant forester in charge; HARRY IRION, office assistant.

WESTERN DIVISION.—R. Y. STUART, forest inspector in charge; C. G. SMITH, forest inspector.

EASTERN DIVISION.—E. E. CARTER, assistant forester in charge; J. G. PETERS, forest inspector; L. S. MURPHY, C. R. TILLOTSON, and J. A. MITCHELL, forest examiners.

COOPERATION WITH PRIVATE TIMBERLAND OWNERS.—A. CARY, logging engineer.

COMPILATION OF STATE FOREST LAWS.—MISS J. S. PEYTON.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—J. G. PETERS, in charge; L. S. MURPHY and J. A. MITCHELL.

Collaborators.—F. H. Colby, land agent and forest commissioner, Augusta, Me.; J. H. Foster, State forester, Concord, N. H.; W. G. Hastings, chief forester, Montpelier, Vt.; M. C. Hutchins, State fire warden, Boston, Mass.; J. B. Mowry, commissioner of forestry, Chepachet, R. I.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; G. H. Wirt, chief forest fire warden, Harrisburg, Pa.; F. W. Besley, State forester, Baltimore, Md.; A. B. Hastings, assistant State forester, Charlottesville, Va.; C. W. Harding, forest, game, and fish warden, Elkins, W. Va.; J. S. Holmes, State forester, Chapel Hill, N. C.; ———, State forester, Frankfort, Ky.; R. D. Forbes, superintendent of forestry, New Orleans, La.; E. O. Siecke, State forester, College Station, Tex.; W. J. Pearson, chief forest fire warden, Boyne Falls, Mich.; C. L. Harrington, conservation commissioner, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.

## GRAZING.

WILL C. BARNES, assistant forester in charge; J. W. NELSON, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. COVILLE, botanist, Bureau of Plant Industry).—JAMES T. JARDINE, inspector of grazing in charge; William R. Chapline, grazing examiner, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.

Range reserve experiments.—Jornada Reserve: Clarence L. Forsling, grazing examiner in charge, Las Cruces, N. Mex. Santa Rita Reserve: R. R. Hill, grazing examiner in charge, Tucson, Ariz.

## LANDS.

E. A. SHERMAN, Associate Forester in charge; C. H. SQUIRE, inspector of lands; W. J. MANGAN, examiner.

CLAIMS, OCCUPANCY, AND SETTLEMENT.—C. H. SQUIRE, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

ACQUISITION.—W. W. ASHE, forest inspector in charge.

APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham, N. H. Forest examiners: White Mountain Area, H. S. Davis and party, Gorham, N. H.; Shenandoah, Massanutten, and Potomac Areas, S. H. Thompson and party, Harrisonburg, Va.; Natural Bridge Area, H. M. Sears and party, Buena Vista, Va.; Unaka and White Top Areas, W. E. Hedges and party, Johnson City, Tenn.; Boone and Mount Mitchell Areas, M. A. Mattoon and party, Asheville, N. C.; Savannah Area, C. H. Burrage, Franklin, N. C.; Georgia Area, C. E. Beaumont and party, Athens, Tenn.; Alabama Area, B. M. Lufburrow and party, Moulton, Ala.; Ozark Area, William P. Dale, forest examiner, and W. P. Kramer, forest assistant, Russellville, Ark.; Arkansas Area, J. A. Bateman and H. A. Regan, national forest examiners, Hot Springs, Ark.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner in charge, Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad, Harrisonburg, Va.; Nantahala Area, James Denman, Asheville, N. C.; Mount Mitchell Area, Dave M. Gibson, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney and Paul G. Jenney, Buena Vista, Va.; Savannah Area, W. N. Sloan, Franklin, N. C.; Cherokee Area, Carl F. Muzzey, Athens, Tenn.; Monongahela Area, Walter H. Sullivan, Elkins, W. Va.



LAW.—A. H. McCONVILLE, assistant to the solicitor in charge, Washington, D. C. Title attorneys: M. B. Stickley, Washington, D. C.; George E. Taylor, Murphy, N. C.; W. L. Newman, Woodstock, Va.; Alfred S. Griggs, Johnson City, Tenn.; Julius C. Fletcher, Lenoir, N. C.; John Awtrey, Clayton, Ga.; Pierce R. Massie, Lynchburg, Va.; H. A. Lamprey, Woodsville, N. H.; John C. Forney, Moulton, Ala.; Judson S. Bohannon, Double Springs, Ala.; John W. Van Hoy, Mena, Ark.

## RESEARCH.

EARLE H. CLAPP, assistant forester in charge; S. T. DANA, forest economist and assistant chief; HARRY IRION, office assistant.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; J. KITTREDGE, Jr., acting in charge.

Studies.—E. H. Frothingham, W. D. Sterrett, W. N. Sparhawk, E. R. Hodson, and W. R. Mattoon. Willis Munro (in cooperation with the Bureau of Entomology).

FOREST DISTRIBUTION.—W. H. LAMB, in charge; Miss G. E. Wharton.

FOREST MEASUREMENTS.—W. B. BARROWS.

LIBRARY.—Miss H. E. STOCKBRIDGE.

COMPILATION.—Miss E. B. LEECH.

### Experiment Stations:

CLOQUET, in cooperation with the University of Minnesota—W. H. KENETY, Cloquet, Minn.

PRIEST RIVER, KANIKSU NATIONAL FOREST.—JULIUS A. LARSEN, forest examiner acting in charge, Priest River, Idaho.

FREMONT, PIKE NATIONAL FOREST.—C. G. BATES, silviculturist in charge, Box 1068, Colorado Springs, Colo.

WAGON WHEEL GAP, RIO GRANDE NATIONAL FOREST.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

FORT VALLEY COCONINO NATIONAL FOREST.—G. A. PEARSON, silviculturist in charge, Flagstaff, Ariz.; S. S. Van Boskirk, forest examiner.

———.—C. F. KORSTIAN, forest examiner, Ogden, Utah.

———.—E. N. MUNNS, forest examiner, San Francisco, Calif.

WIND RIVER, COLUMBIA NATIONAL FOREST.—JULIUS V. HOFMANN, forest examiner in charge, Stabler (railroad point, Carson), Wash.; Chas. J. Kraebel, forest examiner.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—CARLILE P. WINSLOW, director; O. M. BUTLER, assistant director; H. D. Tiemann, dry-kiln specialist; C. V. Mauldin, assistant engineer in forest products.

Publication of Results.————, in charge; Ray C. Tuttle.

DERIVED PRODUCTS.—L. F. HAWLEY, in charge.

Distillation and Naval Stores.—L. F. Hawley, Howard N. Calderwood.

Wood Preservatives.—Ernest Bateman, George G. Town.

Ethyl Alcohol.—E. C. Sherrard, G. W. Blanco.

Cellulose Chemistry.—Samuel A. Mahood, D. E. Cable.

PULP AND PAPER.—OTTO KRESS, in charge.

Manufacture of Pulp and Paper.—Sidney D. Wells, C. L. Bachelder, M. W. Bray, Jos. A. Staidl.

Utilization of By-Products.—V. P. Edwardes, Walter C. Daley, C. E. Rupp.

Pulp and Pulpwood Decay.—C. J. Humphrey, Miss C. Audrey Richards.

TIMBER MECHANICS.—J. A. NEWLIN, in charge; L. J. Markwardt, assistant in charge; T. R. C. Wilson, J. S. Mathewson (on detail, Washington office), John M. Gahagan.

Comparison of Species.—L. J. Markwardt, R. F. Luxford.

Effect of Treatment on Strength.—T. R. C. Wilson, R. P. A. Johnson.

Fabricated Articles.—G. E. Heck.

Plywood Strength.—L. J. Markwardt, H. S. Grenoble, James R. McAteer.

Structural Timbers.—J. A. Newlin.

Aircraft Study.—J. A. Newlin, G. W. Trayer.

Container Investigations.—T. R. C. Wilson, J. R. Watkins, C. A. Plaskett.

TIMBER PHYSICS.—ROLF THELEN, in charge.

Kiln Drying.—C. V. Sweet, L. V. Teesdale, D. R. Brewster, J. D. Studley, W. K. Loughborough.

Wood Technology.—A. Koehler, Miss Eloise Gerry, Miss Gertrude Griffin, M. C. Jensen.

WOOD PRESERVATION.—GEORGE M. HUNT, in charge.

Laminated Wood Studies.—A. L. Heim, A. C. Knauss, Louis Seutter, Carl A. Menzel, R. M. Wirka.

Glues and Plywood.—Matthew E. Dunlap, T. R. Traux, W. L. Jones, Clarence Coye, Alfred C. Lindauer, Frederick L. Browne, C. A. Harrison.

Preservation.—P. R. Hicks, J. D. MacLean.

INDUSTRIAL INVESTIGATIONS.—ARTHUR M. COOK, in charge; D. G. White.

PATHOLOGY (in cooperation with Bureau of Plant Industry).—P. V. SIGGERS, acting in charge; E. E. Hubert.

LABORATORY OPERATION.—ARTHUR UPSON, in charge; Charles P. Juckem, executive clerk.

Accounts.—Oscar M. Wold, fiscal agent.

Engineering.—B. L. Nelson.

Photography.—M. E. Diemer.

Computing.—Kenneth Scott.

Library.—Miss S. D. Kinney.

Supplies.—W. E. Thompson.

**FOREST PRODUCTS.**—H. S. BETTS, in charge; W. D. Brush, R. K. Helphenstine, jr., J. S. Mathewson. E. F. McCarthy, collaborator.

**ECONOMIC INVESTIGATIONS.**— ———, in charge; A. F. HAWES; FRANKLIN H. SMITH; A. H. PIERSON; A. B. STROUGH, collaborator, Albany, N. Y.; STANLEY L. WOLFE.

## ENGINEERING.

O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

**ROADS.**—T. W. NORCROSS, in charge.

**WATER POWER.**—RALPH R. RANDELL, assistant engineer in charge.

**MAPS AND SURVEYS.**—F. E. BONNER, assistant engineer in charge; C. A. KOLB, geographer.

**Atlas.**—G. B. BRUCE.

**Drafting.**—J. M. WITHEROW.

**Engraving.**—T. S. BROCK.

**Photography.**—E. S. SHIPP.

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## DISTRICT 1.

### NORTHERN DISTRICT.

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota. Office, Federal Building, Missoula, Mont.

R. H. RUTLEDGE, district forester; R. P. McLAUGHLIN, educational cooperation, information.

**DISTRICT FOREST INSPECTORS.**—C. K. MCHARG, Coeur d'Alene, Idaho; Coeur d'Alene and St. Joe. J. A. FITZWATER, Sandpoint, Idaho; Kaniksu and Pend Oreille. W. W. WHITE, Missoula, Mont.; Bitterroot, Lolo, and Missoula. J. D. WARNER, Kalispell, Mont.; Blackfeet and Flathead. W. B. WILLEY, Great Falls, Mont.; Jefferson and Lewis and Clark.

**LAW.**—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge.

**ACCOUNTS.**—JOHN A. URBANOWICZ, district fiscal agent.

**OPERATION.**—LEWIS C. STOCKDALE, assistant district forester; G. I. PORTER, executive assistant; ELMERS KOCH, fire suppression; R. B. ADAMS, telephone engineer.

**STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.**—ELMERS KOCH, in charge; J. C. VAN HOOK, State forester, Helena, Mont.; I. H. NASH, State land commissioner, Boise, Idaho, collaborators.

**MAINTENANCE.**—O. C. BRADEEN.

**FOREST MANAGEMENT.**—J. F. PRESTON, assistant district forester; M. H. WOLFF, forest examiner.



LOGGING ENGINEERING.—J. W. GIRARD, U. S. SWARTZ.

TIMBER SALES.—Field Supervision, C. E. KNOUF, lumberman.

PLANTING.—E. F. WHITE. Savenac Nursery, D. S. Olson, planting assistant, Haugan, Mont.

PRODUCTS.—C. L. BILLINGS, lumberman; C. N. WHITNEY, forest examiner.

INSECT CONTROL.—————.

FOREST INVESTIGATIONS.—W. C. LOWDERMILK.

JAMES R. WEIR, consulting pathologist, 408 Columbia Building, Spokane, Wash.

GRAZING.—GLEN A. SMITH, assistant district forester.

STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—————, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBEER, mineral examiner.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer; F. E. THIEME, assistant district engineer.

MAPS AND SURVEYS.—J. B. YULE, in charge.

Topographic Surveys.—J. B. YULE.

Drafting.—FRANK J. COOL.

Photography.—FRANK J. COOL.

Entry Surveys.—F. E. THIEME.

ROADS.—G. H. LAUTZ, in charge; H. A. CALKINS.

WATER POWER.—E. W. KRAMER, in charge.

## NATIONAL FORESTS.

### IDAHO.

Clearwater.—R. A. HAMILTON, forest supervisor, Orofino (WU); P. A. Wohlen, fire assistant.

Coeur d'Alene.—C. C. DELAVAN, forest supervisor, Coeur d'Alene (WU); Philip Neff, lumberman; James F. Brooks, national forest examiner.

Kaniksu.—J. E. RYAN, forest supervisor, Sandpoint (WU); C. R. Clark, forest examiner; J. S. Baird, lumberman.

Nezperce.—S. V. FULLAWAY, Jr., forest supervisor, Grangeville (WU); R. N. Cunningham, fire assistant.

Pend Oreille.—L. G. HORNBY, forest supervisor, Sandpoint (WU); J. E. Breen, deputy forest supervisor; R. R. Fitting, fire assistant.

Selway.—F. J. JEFFERSON, forest supervisor, Kooskia (WU); F. J. Klobucher and F. T. Carroll, fire assistants.

St. Joe.—W. W. WEBER, forest supervisor, Coeur d'Alene (WU); A. S. Hauge, lumberman; A. J. Roche, fire assistant.

## MONTANA.

- Absaroka.**—ERNEST W. SHAW, forest supervisor, Livingston (WU); Frank J. Mosher, forest examiner.
- Beartooth.**—R. TREVOR FERGUSON, forest supervisor, Billings (WU); W. L. Lay, deputy forest supervisor; T. P. Maloy, forest examiner.
- Beaverhead.**—J. B. SOMERS, forest supervisor, Dillon (WU); A. O. Benson, forest examiner.
- Bitterroot.**— ———, forest supervisor, Missoula (WU, P, C); Mallory N. Stickney, deputy forest supervisor; J. H. Clack and A. J. Devan, fire assistants.
- Blackfeet.**— ———, forest supervisor, Kalispell (WU); R. L. Woesner, lumberman.
- Cabinet.**—H. L. BAKER, forest supervisor, Thompson Falls (WU); Howard Drake, lumberman; F. E. Brown, fire assistant.
- Custer.**—J. C. WHITHAM, forest supervisor, Miles City (WU, C); J. W. Stanton, deputy forest supervisor; W. L. Baldwin, forest examiner.
- Deerlodge.**—FAY G. CLARK, forest supervisor, Butte (WU, P, C); J. C. Ketrledge, forest examiner.
- Flathead.**—KENNETH WOLFE, forest supervisor, Kalispell (WU); E. H. Myrick, deputy forest supervisor; C. S. Webb, lumberman; E. A. Anderson, C. H. Hash, and H. L. Redlingshafer, fire assistants.
- Gallatin.**—BURR W. CLARK, forest supervisor, Bozeman (WU, C); J. C. DeCamp, deputy forest supervisor; J. B. Taylor, forest examiner.
- Helena.**—DWIGHT L. BEATTY, forest supervisor, Helena (WU, P); A. H. Abbott, deputy forest supervisor.
- Jefferson.**—A. C. ADAMS, forest supervisor, Great Falls (WU, P, C); E. J. Yoemans, deputy forest supervisor.
- Kootenai.**—LESLIE F. VINAL, forest supervisor, Libby (WU); C. E. Sutton, forest examiner; J. K. Dwinelle, fire assistant.
- Lewis and Clark.**— ———, forest supervisor, Great Falls (WU, P, C); W. M. Rush, deputy forest supervisor.
- Lolo.**—A. M. BAUM, forest supervisor, Missoula (WU, P, C); G. W. Jones, deputy forest supervisor; A. B. Hodgins, lumberman; R. A. Phillips, fire assistant.
- Madison.**—W. J. DERRICK, forest supervisor, Sheridan (WU); H. G. Ade, deputy forest supervisor.
- Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P, C); Lee Stratton, deputy forest supervisor; Frank Foltz, fire assistant.

## WASHINGTON.

**Kaniksu.**—See Idaho.

## DISTRICT 2.

### ROCKY MOUNTAIN DISTRICT.

Colorado, Wyoming, South Dakota, Nebraska, northern Michigan, and northern Minnesota. Office, New Federal Building, Denver, Colo.

ALLEN S. PECK, district forester; W. I. HUTCHINSON, information.

LAW.—Office of the Solicitor (Forest Service branch). GEO. E. TROWBRIDGE, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—FRED MORRELL, assistant district forester; JOHN McLAREN, fire protection; H. R. KYLIE, telephone engineer; PETER KEP-LINGER, educational training.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—JOHN McLAREN, in charge; THEO. SHOEMAKER, State forester, Custer, S. Dak., collaborator.

MAINTENANCE.—F. H. CARROLL.

FOREST MANAGEMENT.—C. M. GRANGER, assistant district forester; M. W. THOMPSON, forest examiner; J. A. DONERY, lumberman.

RESEARCH.—P. J. PAXTON, forest examiner.

TIMBER SURVEYS AND INSECT CONTROL.—W. J. PEARCE, forest examiner.

PLANTING.—FRED R. JOHNSON.

CARL HARTLEY, consulting pathologist, Denver, Colo.

GRAZING.—JOHN H. HATTON, assistant district forester; LYNN H. DOUGLAS, inspector of grazing.

STUDIES.—LYNN H. DOUGLAS, inspector of grazing in charge; JESSE M. MANN and H. W. ELOFSON, grazing assistants.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, classification and exchange; J. B. CAMMANN, mineral examiner; ARTHUR H. CARHART, recreation engineer.

ENGINEERING.—FRED D. MENDENHALL, district engineer; J. L. BROWNLEE, assistant district engineer.

MAPS AND SURVEYS.—J. BURGESS.

Drafting.— ———.

Entry Surveys.—W. C. CAMPBELL.

Topographic Surveys.—J. BURGESS, acting.

ROADS.—FRED D. MENDENHALL, in charge; J. L. BROWNLEE.

WATER POWER.—FRED D. MENDENHALL.

### NATIONAL FORESTS.

#### COLORADO.

Arapaho.—ALVE L. RICHEY, forest supervisor, Hot Sulphur Springs. (WU).

Battlement.—JOHN W. SPENCER, forest supervisor, Grand Junction. (WU).

**Cochetopa.**—FRED B. AGEE, forest supervisor, Saguache (WU) ; Clarence E. Taylor, forest examiner.

**Colorado.**—H. N. WHEELER, forest supervisor, Fort Collins (WU) ; M. J. Sweeney, forest examiner.

**Durango.**—H. EARL FRENCH, forest supervisor, Durango (WU).

**Gunnison.**—WILLIAM R. KREUTZER, district forest inspector, Gunnison (WU).

**Hayden.**—See Wyoming.

**Holy Cross-Sopris.**—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU) ; G. M. Hunter, deputy forest supervisor ; Robert H. Easterbrooks, forest examiner.

**Leadville.**—HAROLD L. BORDEN, forest supervisor, Leadville (WU, P).

**Montezuma.**—A. F. C. HOFFMAN, forest supervisor, Mancos (WU) ; Charles Steuart, forest examiner.

**Pike.**—RESS PHILIPS, district forest inspector, Denver (WU, P) ; Wm. R. Fraser, deputy forest supervisor ; Everard S. Keithley, forest examiner. Monument Nursery, W. H. Schrader, forest planting assistant in charge, Monument.

**Rio Grande.**—R. E. CLARK, district forest inspector, Monte Vista (WU) ; Walter F. Bowers, deputy forest supervisor.

**Routt.**—RAY PECK, forest supervisor, Steamboat Springs (WU).

**San Isabel.**—ALBIN G. HAMEL, forest supervisor, Westcliffe (WU).

**San Juan.**—LESLIE BROWNELL, forest supervisor, Pagosa Springs (WU) ; Chas. B. Mack, deputy forest supervisor.

**Uncompahgre.**—DWIGHT S. JEFFERS, forest supervisor, Delta (WU).

**White River.**—JAMES A. BLAIR, forest supervisor, Glenwood Springs (WU) ; Theodore Krueger, forest examiner.

#### MICHIGAN.

**Michigan.**—HUBER C. HILTON, forest supervisor, East Tawas (WU). Beal Nursery, East Tawas.

#### MINNESOTA.

**Minnesota.**—G. E. MARSHALL, forest supervisor. Cass Lake (WU). Cass Lake Nursery.

**Superior.**—C. A. DAHLGREN, forest supervisor, Ely (WU) ; Robert G. Schreck, forest examiner.

#### NEBRASKA.

**Nebraska.**—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.



## SOUTH DAKOTA.

**Black Hills.**—GEORGE A. DUTHIE, forest supervisor, Deadwood (WU); Thos. H. Gill, deputy forest supervisor; L. E. Hitchcock, forest examiner.

**Harney.**—JAMES F. CONNER, forest supervisor, Custer (WU); John V. Leighou, forest examiner.

## WYOMING.

**Bighorn.**—E. W. TINKER, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

**Black Hills.**—See South Dakota.

**Hayden.**—JAMES BLACKHALL, forest supervisor, Encampment (WU, P).

**Medicine Bow.**—EARL S. PEIRCE, forest supervisor, Laramie (WU, P); Andrew Hutton, deputy forest supervisor; Jas. C. Jensen, lumberman.

**Shoshone.**—J. W. LOWELL, Jr., district forest inspector, Cody (WU); E. T. Wolf, forest examiner.

**Washakie.**—C. G. POOLE, forest supervisor, Lander (WU).

## DISTRICT 3.

## SOUTHWESTERN DISTRICT.

Arizona and New Mexico. Office, Gas and Electric Building, Albuquerque, N. Mex.

FRANK C. W. POOLER, district forester; WARD SHEPARD and EDWARD P. ANCONA, forest examiners, educational cooperation and game protection.

DISTRICT FOREST INSPECTORS.—JOSEPH C. KIRCHER, T. T. SWIFT, Safford, Ariz.; Crook. FRANK E. ANDREWS, Santa Fe, N. Mex.; Santa Fe.

LAW.—Office of the Solicitor (Forest Service branch). CHARLES S. BROTHERS, assistant to the solicitor, in charge.

ACCOUNTS.—ALBERT MORRIS, district fiscal agent.

OPERATION.—ALDO LEOPOLD, assistant district forester, in charge; JAMES F. MULLEN, national forest examiner, assistant chief; H. G. CALKINS, forest examiner, in charge of improvement; L. V. SLONAKER, telephone engineer.

MAINTENANCE.—H. B. HAMMOND.

FOREST MANAGEMENT.—R. E. MARSH, assistant district forester; D. M. LANG, lumberman; QUINCY RANGLES and MARINUS WESTVELD, forest examiners.

W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester; PAUL H. ROBERTS, inspector of grazing.

STUDIES.—M. W. TALBOT and C. K. COOPERRIDER, grazing examiners.

LANDS.—JOHN D. JONES, assistant district forester; M. M. CHENEY, national forest examiner. Classification: REX KING and H. D. BURRALL, forest examiners.

ENGINEERING.—C. A. LONG, district engineer.

MAPS AND SURVEYS.—————.

Drafting.—F. E. LANDON.

Entry Surveys.—A. W. HENDRIX, surveyor.

ROADS.—C. A. LONG, in charge. Trail Surveys: J. C. MULDER, R. L. HUGHES.

WATER POWER.—C. A. LONG, in charge.

## NATIONAL FORESTS.

### ARIZONA.

Apache.—ROBERT J. SELKIRK, forest supervisor, Springerville (P); Alfred W. Voight, deputy forest supervisor.

Coconino.—EDWARD G. MILLER, forest supervisor, Flagstaff (WU, P); Kenner C. Kartchner, deputy forest supervisor; Robert F. Rhinehart, lumberman; Leonard R. Lessel, national forest examiner; James W. Girdner and John A. Adams, deputy forest supervisors.

Coronado.—H. BASIL WALES, forest supervisor, Tucson (WU); F. L. W. Grubb, deputy forest supervisor; Stanley F. Wilson, forest examiner.

Crook.—T. T. SWIFT, forest supervisor, Safford (WU).

Prescott.—ROBERT L. DEERING, forest supervisor, Prescott (WU); J. C. McNulty, deputy forest supervisor.

Sitgreaves.—T. C. HOYT, forest supervisor, Snowflake (P).

Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU); J. H. Sizer, deputy forest supervisor.

Tusayan.—JAMES A. SCOTT, forest supervisor, Williams (WU, P); George W. Kimball, forest examiner; Chester V. Christensen, deputy forest supervisor.

### NEW MEXICO.

Carson.—EARL W. LOVERIDGE, forest supervisor, Taos (WU); Carroll R. Dwire, deputy forest supervisor.

Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P); Robert Munro, national forest examiner; Thomas C. Turk and Robert C. Salton, deputy forest supervisors.

**Gila.**—FREDERIC WINN, forest supervisor, Silver City (WU, P) ; H. Norton Cope, deputy forest supervisor.

**Lincoln.**—O. F. ARTHUR, forest supervisor, Alamogordo (WU) ; William J. Anderson, deputy forest supervisor.

**Manzano.**— ———, forest supervisor, Albuquerque (WU, P) ; L. J. Putsch, deputy forest supervisor, acting in charge ; Charles H. Kissam, national forest examiner.

**Santa Fe.**—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P) ; R. L. De Camp, deputy forest supervisor ; Gordon T. Backus, forest examiner. Las Gallinas Nursery. Herman Krauch, forest examiner.

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## DISTRICT 4.

### INTERMOUNTAIN DISTRICT.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Office, Forest Service Building, Ogden, Utah.

L. F. KNEIPP, district forester ; JAMES E. SCOTT, national forest inspector, educational cooperation, information.

**LAW.**—Office of the Solicitor (Forest Service branch). J. F. LAWSON, assistant to the solicitor, in charge.

**ACCOUNTS.**—HOMER A. SEIP, district fiscal agent.

**OPERATION.**— ———, assistant district forester ; CHAS. D. SIMPSON, acting assistant district forester ; CARL B. ARENTSON, forest supervisor, executive assistant ; R. B. ADAMS, telephone engineer.

**STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.**— ———, in charge ; I. H. NASH, State land commissioner, Boise, Idaho, collaborator.

**MAINTENANCE.**—CLYDE M. GWIN.

**FOREST MANAGEMENT.**—C. B. MORSE, assistant district forester ; D. F. SEEREY, logging engineer ; S. S. STEWART, forest examiner.

**PLANTING.**—E. H. HALL, in charge. Cottonwood Nursery, N. J. FETHEROLF, planting assistant in charge, Sugarhouse, Utah.

**GRAZING.**—C. N. WOODS, assistant district forester ; ERNEST WINKLER, inspector of grazing.

**STUDIES.**—LAWRENCE J. PALMER, grazing examiner.

**LANDS.**— ———, assistant district forester ; R. E. GERY, assistant ; W. B. RICE, in charge of entry surveys ; S. B. LOCKE, forest examiner, fish and game.

**RESEARCH.**—F. S. BAKER, forest examiner.

ENGINEERING.—J. P. MARTIN, district engineer; F. J. RYDER, administrative assistant.

MAPS AND SURVEYS.—O. C. LOCKHART, Jr., in charge.

Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge; H. G. MCPHETERS, R. A. BROWN, C. E. FISH, and O. W. TORGESON, assistants.

WATER POWER.—J. P. MARTIN, in charge.

### EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge.

### NATIONAL FORESTS.

#### ARIZONA.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

#### IDAHO.

Boise.—E. GRANDJEAN, district forest inspector, Boise (WU); W. M. Campbell, deputy forest supervisor.

Cache.—See Utah.

Caribou.—EARL C. SANFORD, forest supervisor, Montpelier (WU); Robert W. Strong, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—R. D. GARVER, forest supervisor, Burley (WU); J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, district forest inspector, Emmett (WU); F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU); Ernest A. Renner, deputy forest supervisor.

Sawtooth.—M. S. BENEDICT, district forest inspector, Hailey (WU); Leslie E. Dodge and C. M. Mangun, deputy forest supervisors.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU); John N. Kinney, deputy forest supervisor.

Weiser.—LYLE F. WATTS, forest supervisor, Weiser (WU); T. V. Pearson, deputy forest supervisor.



## NEVADA.

**Humboldt.**—C. E. FAVRE, district forest inspector, Elko (WU) ; Oscar W. Mink, deputy forest supervisor.

**Nevada.**—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).

**Toiyabe.**—JAS. W. MCGOWAN, forest supervisor, Austin (WU, P).

## UTAH.

**Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU).

**Cache.**—E. C. SHEPARD, district forest inspector, Logan (WU) ; Edmund B. S. Spencer, deputy forest supervisor.

**Dixie-Sevier.**—WM. M. MACE, forest supervisor, Cedar City (WU) ; Wallace M. Riddle, deputy forest supervisor.

**Fillmore.**—JOHN RAPHAEL, district forest inspector, Richfield (WU) ; A. M. Woodbury, deputy forest supervisor.

**Fishlake.**—C. A. MATTSSON, forest supervisor, Salina (WU).

**La Sal.**—CHAS. DEMOISEY, Jr., forest supervisor, Moab (WU).

**Manti.**—J. W. HUMPHREY, forest supervisor, Ephraim (WU).

**Minidoka.**—See Idaho.

**Powell-Sevier.**—GEO. H. BARNEY, forest supervisor, Widtsoe (WU).

**Uinta.**—W. W. BLAKESLEE, forest supervisor, Provo (WU).

**Wasatch.**—DANA PARKINSON, forest supervisor, Salt Lake City (WU, P) ; David A. Arrivee, deputy forest supervisor.

## WYOMING.

**Bridger.**—LEE E. COOPER, forest supervisor, Pinedale (WU) ; E. E. McKee, deputy forest supervisor.

**Teton.**—A. C. MCCAIN, district forest inspector, Jackson (WU).

**Wyoming.**—CHARLES A. BEAM, forest supervisor, Afton (WU) ; Lewis B. Koch, scaler, in charge of Standard Timber Co. sale.

## DISTRICT 5.

## CALIFORNIA DISTRICT.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Calif.

PAUL G. REDINGTON, district forester.

FOREST PRODUCTS.—C. A. KUPFER.

INFORMATION.—R. F. HAMMATT, in charge ; PAUL J. FAIR, exhibits.

DISTRICT FOREST INSPECTOR.—R. H. CHARLTON, Los Angeles, Calif. ; Angeles, Cleveland, and Santa Barbara.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—DON P. JOHNSTON, assistant district forester.

FINANCE.—C. WILEY, national forest inspector.

PERSONNEL.—PAUL P. PITCHLYNN, forest supervisor.

IMPROVEMENT.—F. H. HAFLEY, telephone engineer.

FIRE.—E. I. KOTOK, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—E. I. KOTOK, in charge; G. M. HOMANS, State forester, Sacramento, Calif., collaborator.

LAW ENFORCEMENT.—C. L. HILL, forest examiner, in charge. C. V. BRERETON, national forest examiner, field investigations.

MAINTENANCE.—E. H. SCHMIEDER, in charge.

FOREST MANAGEMENT.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—PERRY EMIGH and J. H. PRICE.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

INSECT CONTROL.—————.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist; H. G. LACHMUND, R. A. STUDHALTER, assistants.

RESEARCH.—S. B. SHOW, forest examiner in charge; DUNCAN DUNNING, forest examiner.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.————— grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; GEORGE MILLER, national forest examiner.

MINERAL EXAMINATION, LAND CLASSIFICATION, AND ENTRY SURVEYS.—W. H. FRIEDHOFF, mineral examiner in charge of field work.

ENGINEERING.—F. H. FOWLER, district engineer; J. C. DORT, assistant district engineer; F. A. LAW, administrative assistant.

MAPS AND SURVEYS.—S. W. WYNNE, in charge; S. N. STONER, in charge of field parties.

Drafting.—H. A. SEDELMAYER, acting.

ROADS.—F. H. FOWLER, in charge; J. C. DORT, F. D. BOWLUS.

Minor Roads, Trails, and Improvements.—S. W. WYNNE, C. E.

JORDON.

WATER POWER.—F. H. FOWLER, in charge.

## NATIONAL FORESTS.

### CALIFORNIA.

Angeles.—SHIRLEY W. ALLEN, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Alder Springs via Willows (WU); B. H. MACE, deputy forest supervisor.

- Cleveland.**—S. A. BOULDEN, forest supervisor, San Diego (WU).  
**Eldorado.**—E. F. SMITH, forest supervisor, Placerville (WU).  
**Inyo.**—THOS. J. JONES, forest supervisor, Bishop (WU).  
**Klamath.**—W. A. HUESTIS, forest supervisor, Yreka (WU).  
**Lassen.**—C. E. DUNSTON, forest supervisor, Red Bluff (WU) ; T. C. West, deputy forest supervisor ; A. E. Weislander, forest examiner.  
**Modoc.**—W. G. DURBIN, forest supervisor, Alturas (WU).  
**Mono.**—See Nevada.  
**Plumas.**—D. N. ROGERS, district forest inspector, Quincy (WU) ; Richard A. Colgan, jr., forest examiner ; George R. Orr, lumberman.  
**Santa Barbara.**—THOS. W. SLOAN, forest supervisor, Santa Barbara (P).  
**Sequoia.**—F. P. CUNNINGHAM, forest supervisor, Hot Springs (WU) ; Wm. F. Derby, deputy forest supervisor.  
**Shasta.**—J. R. HALL, forest supervisor, Sisson (P) ; Belknap C. Goldsmith, forest examiner. Pilgrim Creek Nursery, Roscoe Weaver, forest examiner.  
**Sierra.**—M. A. BENEDICT, district forest inspector, Northfork (WU via Friant-Exp. via Friant).  
**Stanislaus.**—J. V. WULFF, forest supervisor, Sonora (WU) ; M. R. Brundage, forest examiner.  
**Tahoe.**—R. L. P. BIGELOW, district forest inspector, Nevada City (WU) ; Geo. W. Lyons, forest examiner.  
**Trinity.**—E. V. JOTTER, forest supervisor, Weaverville (WU).

## NEVADA.

- Eldorado.**—See California.  
**Inyo.**—See California.  
**Mono.**—WM. M. MAULE, forest supervisor, Minden (WU).  
**Tahoe.**—See California.

## DISTRICT 6.

## NORTH PACIFIC DISTRICT.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester.

INFORMATION.—JOHN D. GUTHRIE, in charge ; A. G. JACKSON, education.

DISTRICT FOREST INSPECTORS.—R. M. EVANS, Baker, Oreg. ; Minam and Whitman. T. H. SHERRARD, Portland, Oreg. ; Oregon. F. H. BRUNDAGE, Portland, Oreg. ; Columbia. R. L. FROMME, Olympia, Wash. ; Olympic. W. G. WEIGLE, Seattle, Wash. ; Snoqualmie.



LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; SHIRLEY BUCK and H. M. WHITE, national forest inspectors.

FIRE PROTECTION.—W. B. OSBORNE, Jr., forest examiner.

IMPROVEMENT.—M. L. MERRITT, forest examiner.

TELEPHONE ENGINEERING.—C. M. ALLEN, telephone engineer.

TRAILS.—H. L. PLUMB, forest examiner.

LAW ENFORCEMENT.—T. M. TALBOTT, national forest examiner.

INSPECTION OF PROTECTION OF OREGON & CALIFORNIA RAILROAD LANDS.—R. H. CHAPLER, forest examiner.

STATE COOPERATIVE FIRE PROTECTION UNDER THE WEEKS LAW.—R. H. CHAPLER, in charge; F. A. ELLIOTT, State forester, Salem, Oreg.; F. E. PAPE, State forester and fire warden, Olympia, Wash., collaborators.

MAINTENANCE.—H. G. WHITNEY.

FOREST MANAGEMENT.—F. E. AMES, assistant district forester.

TIMBER SALES.—THORNTON T. MUNGER, forest examiner.

LOGGING ENGINEERING.—BRUCE E. HOFFMAN, GEO. L. DRAKE, and B. F. HEINTZLEMAN, forest examiners.

CHECK SCALING.—E. C. ERICKSON, lumberman.

TIMBER SURVEYS AND WORKING PLANS.—C. J. CONOVER and GEORGE A. BRIGHT, forest examiners.

INSECT CONTROL.—A. J. JAENICKE, forest examiner.

PLANTING AND FOREST INVESTIGATIONS.—J. F. KÜMMEL, W. H. LEVE, and R. H. WEIDMAN, forest examiners.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

STUDIES.—D. C. INGRAM, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND USES.—W. M. H. WOODWARD, mineral examiner.

LAND CLASSIFICATION.—A. H. WRIGHT and ASHER IRELAND, national forest examiners. (Alaska).—WELLMAN HOLBROOK.

RECREATION.—FRED W. CLEATOR, forest supervisor.

LAND EXCHANGES.—RYLE TEED, national forest examiner.

ENGINEERING.—PHILIP H. DATER, district engineer; D. V. STROOP, administrative assistant.

MAPS AND SURVEYS.—H. D. FOSTER, forest examiner.

Entry Surveys.—GEORGE W. ROOT.

ROADS.—PHILIP H. DATER, in charge; CECIL A. LORD.

WATER POWER.—E. W. KRAMER (temporarily on detail from district 1).

PRODUCTS.—W. H. GIBBONS, forest examiner in charge; C. W. GOULD, forest examiner, Portland; C. W. ZIMMERMAN and H. C. STINSON, engineer and assistant engineer in forest products, Seattle.



## NATIONAL FORESTS.

## ALASKA.

**Chugach.**—C. H. FLORY, superintendent of Alaska forests, Ketchikan (SC, U. S. A., WU); Louis King, special fiscal agent, Ketchikan. C. T. BEACH, forest supervisor, Cordova (WU, P); Wm. J. McDonald, deputy forest supervisor, Cordova.

**Tongass.**—C. H. FLORY, forest supervisor, Ketchikan (SC, U. S. A., WU); CHARLES T. GARDNER, forest supervisor, Ketchikan; Joseph L. MacKechnie, Craig, Alaska; George H. Peterson, Sitka, deputy forest supervisors.

## OREGON.

**Cascade.**—N. F. MACDUFF, forest supervisor, Eugene (WU, P); Smith Taylor and Harvey E. Vincent, deputy forest supervisors.

**Crater.**—H. B. RANKIN, forest supervisor, Medford (WU, P); Fred A. Matz, national forest examiner; H. M. Johnson, forest examiner.

**Deschutes.**—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P); W. J. Sproat, forest examiner; F. V. Horton, grazing examiner.

**Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P).

**Klamath.**—See California.

**Malheur.**—WM. W. CRYDER, forest supervisor, John Day (WU via Baker-Exp. via Baker).

**Minam.**—J. F. IRWIN, forest supervisor, Baker (WU).

**Ochoco.**—V. V. HARPHAM, forest supervisor, Prineville (WU, PT & T).

**Oregon.**—T. H. SHERRARD, district forest inspector, Portland (WU, P); CARL B. NEAL, forest supervisor; J. A. Graham, deputy forest supervisor; W. J. Paeth, forest examiner.

**Santiam.**—C. C. HALL, forest supervisor, Albany (WU, P).

**Siskiyou.**—E. H. MACDANIELS, forest supervisor, Grants Pass (WU, P); T. M. Hunt, forest supervisor; H. A. Haefner, forest examiner.

**Siuslaw.**—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P).

**Umatilla.**—JOHN C. KUHN, forest supervisor, Pendleton (WU, P).

**Umpqua.**—W. F. RAMSDALL, forest supervisor, Roseburg (WU, P); George Bonebreak, deputy forest supervisor.

**Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.

**Wenaha.**—See **Washington**.

**Whitman.**—I. E. JONES, forest supervisor, Baker (WU) ; N. L. Carey forest examiner ; C. W. Waterbury, lumberman ; Walter L. Dutton, grazing examiner.

#### WASHINGTON.

**Chelan.**—P. T. HARRIS, forest supervisor, Okanogan (PT & T-Exp. via Wenatchee) ; E. O. Blankenship and G. E. Mitchell, deputy forest supervisors, Chelan.

**Columbia.**—SHIRLEY BUCK, acting forest supervisor, Portland, Oreg. (WU, P).

**Colville.**—C. C. REID, forest supervisor, Republic (WU, P) ; Lawrence B. Pagter, forest examiner.

**Okanogan.**—P. T. HARRIS, forest supervisor, Okanogan (PT & T-Exp. via Wenatchee).

**Olympic.**—O. F. ERICKSON, forest supervisor, Olympia (WU, P) ; Chris Morgenroth, deputy forest supervisor ; A. A. Griffin, forest examiner.

**Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P) ; E. J. Fenby, deputy forest supervisor ; F. B. Kellogg, forest examiner.

**Snoqualmie.**—LEWIS A. TREEN, Jr., forest supervisor, Seattle (WU, P) ; Edward J. Hanzlik, forest examiner.

**Washington.**—C. H. PARK, forest supervisor, Bellingham (WU, P) ; R. L. Campbell and Thomas Thompson, deputy forest supervisors.

**Wenaha.**—JOHN C. KUHN, forest supervisor, Walla Walla (WU).

**Wenatchee.**—A. H. SYLVESTER, forest supervisor, Wenatchee (WU) ; F. B. Lenzie, grazing examiner.

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## DISTRICT 7.

### EASTERN DISTRICT.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, } H. O. STABLER, assistant district forester ; JOHN  
ENGINEERING, } W. Fox, assistant engineer.

SILVICULTURE.—I. F. ELDREDGE, assistant district forester ; E. V. CLARK, national forest examiner.

GRAZING, } F. W. REED, district forester ; W. F. HILL, national for-  
LANDS, } est examiner.

## NATIONAL FORESTS.

## ALABAMA.

**Alabama.**—BURLEY M. LUFBURROW, acting forest supervisor, Moulton.

## ARKANSAS.

**Arkansas.**—CHAS. A. PLYMALE, forest supervisor, Hot Springs (WU, P); Wm. E. White, deputy forest supervisor; R. C. Huey, national forest examiner.

**Ozark.**—BEN F. VAUGHAN, forest supervisor, Russellville (WU).

## FLORIDA.

**Florida.**—L. L. BISHOP, district forest inspector, Pensacola (WU, P); C. H. Rogers, deputy forest supervisor.

## GEORGIA.

**Georgia.**—See Tennessee.

**Nantahala.**—See North Carolina.

## MAINE.

**White Mountain.**—See New Hampshire.

## NEW HAMPSHIRE.

**White Mountain.**—J. J. FRITZ, forest supervisor, Gorham (WU, P); H. R. Currier, deputy forest supervisor; E. D. Fletcher, national forest examiner.

## NORTH CAROLINA.

**Pisgah** (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, district forest inspector, Asheville (WU, P); Ira T. Yarnall, forest examiner.

**Nantahala** (includes south half of Nantahala and the Savannah purchase\* areas).—R. W. SHIELDS, forest supervisor, Franklin (WU, P).

## OKLAHOMA.

**Wichita.**—FRANK RUSH, forest supervisor, Cache (WU).

## PORTO RICO.

**Luquillo.**—E. MURRAY BRUNER, forest examiner, in charge, Rio Piedras.

## SOUTH CAROLINA.

**Nantahala.**—See North Carolina.

## TENNESSEE.

**Cherokee-Georgia.**—H. G. SPAHR, forest supervisor, Athens (WU, P).

**White Top** (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest supervisor, Johnson City (WU, P); W. E. Hedges, national forest examiner.

## VIRGINIA.

**Natural Bridge.**—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P); H. M. Sears, forest examiner.

**Shenandoah** (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, district forest inspector, Harrisonburg (WU, P); Wm. H. Stoneburner, deputy forest supervisor.

**White Top.**—See Tennessee.

## WEST VIRGINIA.

**Monongahela.**—H. L. JOHNSON, forest supervisor, Elkins (WU, P).

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**SERVICE CHANGES.**
**APPOINTED.**

**LABORATORY.**—Mark W. Bray, assistant chemist; Claude E. Rupp, assistant chemist in forest products; Clarence J. Humphrey, pathologist; C. Audrey Richards, assistant in forest pathology; Arthur T. Jones, laboratory helper; Fay F. E. Holum and Lillian Matson, clerks (typewriters); Mary E. Delaney, clerk (stenographer and typewriter); Grace Bewick and Clara Kepke, computing clerks.

**DISTRICT 1.**—Arthur E. Byers (reinstatement), Cabinet; A. Price Townsend (reinstatement), Missoula; Thomas J. Carney (reinstatement), Absaroka; J. W. Streit (reinstatement), forest rangers, Justin K. Dwinelle (reinstatement), Kootenai, fire assistant. Mary E. Harvey (transfer), Madison; Rose M. Almini, Flathead; Armilda S. Bowers, Helena, clerks (stenographers and typewriters). Pearl E. Perry, Cabinet; Esther M. Pierson, Deerlodge, clerks (typewriters). Andrew G. Bussey, messenger.



DISTRICT 2.—Clarence E. Snell, Montezuma; Rayman O. Myers, Shoshone, forest clerks. Herbert J. S. Devries and Rae A. Kennedy, San Juan, clerks (stenographers and typewriters). William A. Tokola, Black Hills; Joseph Pluth, Superior, clerks (typewriters). James B. Beals, San Juan; Fred E. Maupin, Uncompahgre, forest rangers. Anna A. Mellen (reinstatement), clerk (stenographer and typewriter). Bertha Bright, clerk (typewriter). Charles D. Jackson, draftsman (copyist topographic).

DISTRICT 3.—Madge P. Scott, clerk (typewriter). Leonard D. Blodgett (reinstatement), Santa Fe; Guy B. Rencher (reinstatement), Tonto; Albert Yochelson, Datil, forest rangers. Helen D. Walls, Apache; Orpha Stuart, Santa Fe, clerks (stenographers and typewriters). Martha H. Edgington, Lincoln, clerk (typewriter).

DISTRICT 4.—Francis Moss, Targhee; Martin Murphy, Bridger, forest rangers. Myreel Potter, Fillmore; Millie Young, Kaibab, clerks (typewriters). Nina W. Cranney, Wyoming; Lewis R. Walgren (reinstatement), Uinta, forest clerks. Charles E. Fish, surveyor draftsman. Elizabeth M. Seppich, clerk (stenographer and typewriter).

DISTRICT 6.—Helen Minnie Comer, Rainier, clerk (typewriter). Arthur Van Deventer, Siskiyou; Wesley A. Stockpole, Snoqualmie; Jason P. Williams (reinstatement), Tongass; Rudolph Mark Brunn, Rainier; Ralph A. Snow, Deschutes, forest rangers.

#### PROMOTED IN RANK.

FORESTER.—William B. Greeley, assistant forester to Forester; Edward A. Sherman, assistant forester to Associate Forester.

EDITOR.—Herbert A. Smith, editor to assistant forester.

OPERATION.—George G. Anderson, inspector of records to assistant in personnel.

FOREST MANAGEMENT.—J. Girvin Peters, chief, Office of State Cooperation to forest inspector.

ACQUISITION.—Kenneth E. Kimball, forest ranger to national forest examiner; Rezin E. Pidgeon and Arthur A. Riemer, transitmen to examiners of surveys.

RESEARCH.—Earl H. Frothingham, forest examiner to silviculturist.

LABORATORY.—Arthur T. Upson, forest supervisor to chief, section of laboratory operation; Arthur M. Cook, forest examiner to chief, section of industrial investigation; Lawrence V. Teesdale, architectural assistant to engineer in forest products.

DISTRICT 1.—Joseph A. Fitzwater, C. K. McHarg, J. D. Warner, W. B. Willey, and W. W. White, forest supervisors to district forest examiners. M. H. Wolff, forest supervisor to forest examiner. A. C. Adams, Jefferson; W. W. Weber, Deerlodge, deputy forest supervisors to forest supervisors. Kenneth L. Wolfe, Flathead; C. C. Delavan, Coeur d'Alene;

L. F. Vinal, Kootenai, fire assistants to forest supervisors. W. P. Hillman, Kaniksu; Henry Wold, Coeur d'Alene, forest clerks to deputy forest supervisors. W. M. Rush, Lewis and Clark; J. E. Breen, Pend Oreille; G. W. Jones, Lolo, forest rangers to deputy forest supervisors. John H. Clack, Bitterroot, deputy forest supervisor to fire assistant. W. C. Lowdermilk, forest ranger to forest examiner. R. P. McLaughlin, forest supervisor to national forest examiner.

DISTRICT 2.—Allen S. Peck, forest inspector to district forester. John B. Cammann, deputy forest supervisor to national forest examiner. Jesse M. Mann, grazing assistant to grazing examiner. Carlos G. Bates, forest examiner to silviculturist. Ress Philips, Bighorn; William R. Kreutzer, Gunnison; Robert E. Clark, Rio Grande; John W. Lowell, jr., Shoshone, forest supervisors to district forest inspectors. Alve L. Richey, Arapaho, deputy forest supervisor to forest supervisor. Harold L. Borden, Leadville, forest examiner to forest supervisor. Thomas H. Gill, Black Hills, forest ranger to deputy forest supervisor.

DISTRICT 3.—Frank C. W. Pooler, assistant district forester to district forester. John D. Jones, national forest examiner to assistant district forester. Theodore T. Swift, Crook; Frank E. Andrews, Santa Fe; Joseph C. Kircher, forest supervisors to district forest inspectors. John A. Adams and Kenner C. Kartchner, Coconino; Llewellyn J. Putsch, Manzano; John C. McNelty, Prescott; Lee R. DeCamp, Santa Fe; Francis L. W. Grubb, Tusayan, deputy forest supervisors to forest supervisors. Carroll R. Dwire, Carson; Otto P. Schoenberg, Coronado; Francis Lee Kirby, Crook; Robert S. Salton and James A. Simmons, Datil; H. Norton Cope, Gila, forest rangers to deputy forest supervisors. Simeon Strickland, Lincoln, scaler to lumberman. Homer E. German, Coconino, forest ranger to scaler.

DISTRICT 4.—Miller S. Benedict, Sawtooth; Clarence E. Favre, Humboldt; Emile Grandjean, Boise; Arthur C. McCain, Teton; Guy B. Mains, Payette; John Raphael, Fillmore; Edwin C. Shepard, Cache, forest supervisors to district forest inspectors. David A. Arrivee, Wasatch; Clinton M. Mangun, Sawtooth; Frank S. Moore, Payette; Wallace M. Riddle, Dixie; Edmund B. Spencer, Cache; Lyle F. Watts, Boise, deputy forest supervisors to forest supervisors. James E. Gurr, Dixie; Lewis T. Quigley, La Sal; Elmer C. Ross, Weiser; Lemuel Steele, jr., Targhee; Robert W. Strong and Francis Wallis, Payette, forest rangers to deputy forest supervisors.

DISTRICT 5.—R. H. Charlton, Angeles; David N. Rogers, Plumas; Maurice A. Benedict, Sierra; Richard L. P. Bigelow, Tahoe, forest supervisors to district forest inspectors. Thos. W. Sloan, Santa Barbara; Edwin F. Smith, Eldorado; Thos. J. Jones, Inyo, deputy forest supervisors to forest supervisors. S. A. Nash-Boulden, Cleveland, forest ranger to forest supervisor. James B. Stephenson, Cleveland; Henry A. Kloppenburg, Plumas; Lee Slinkard, Sequoia; John T. Gray, Trinity,

forest rangers to deputy forest supervisors. Robert J. Settles, California, clerk to deputy forest supervisor. Albert E. Wieslander, Lassen, forest assistant to forest examiner. Fred P. Cronemiller, jr., Modoc, grazing assistant to grazing examiner. Rollin A. Fairchild, Inyo, clerk to forest clerk. E. I. Kotok, forest supervisor to forest examiner. Paul P. Pitchlynn and Chester E. Jordan, forest supervisors to national forest examiners.

DISTRICT 6.—Wellman Holbrook, forest ranger to national forest examiner. Elmer R. Johnson, draftsman to surveyor. Charles Ward Boyce, forest assistant to forest examiner. Rudo L. Fromme, Fred H. Brundage, Thomas H. Sherrard, William G. Weigle, Robie M. Evans, forest supervisors to district forest inspectors. John F. Irwin, Thomas M. Hunt, Ira E. Jones, Charles T. Gardner, deputy forest supervisors to forest supervisors. Carl B. Neal, fire assistant to forest supervisor. George H. Peterson, Thomas Thompson, William J. McDonald, Joe A. Graham, Joseph L. MacKechnie, forest rangers to deputy forest supervisors. Louis King, clerk to fiscal agent. Oliver F. Erickson and Willett F. Ramsdell, forest examiners to forest supervisors. Roland L. Cline, forest planting assistant to national forest examiner. George E. Griffith, forest clerk to deputy forest supervisor.

DISTRICT 7.—Loren L. Bishop, Florida; Seward H. Marsh, Shenandoah; Verne Rhoades, Pisgah, forest supervisors to district forest inspectors. Henry L. Johnson, Monongahela, forest examiner to forest supervisor. Horace R. Currier, White Mountain, forest ranger to deputy forest supervisor. Wm. D. Jones and Thomas F. Hale, Arkansas, assistant forest rangers to forest rangers.

#### CHANGE IN DESIGNATION.

RESEARCH.—Austin F. Hawes, extension specialist in forestry to forest economist.

DISTRICT 1.—E. A. Anderson, Flathead, deputy forest supervisor to fire assistant. W. G. Wahlenberg, Custer, forest assistant to forest ranger. Le Vaughn Beaman, Blackfeet, clerk to forest ranger.

DISTRICT 2.—Simeon D. Anderson, Gunnison; Lee P. Brown, Leadville; Earle D. Bailey, Pike, forest assistants to forest rangers.

DISTRICT 3.—Edward P. Ancona and Hugh G. Calkins, forest supervisors to forest examiners. James F. Mullen, forest supervisor to national forest examiner. Robert Thompson, Coronado, deputy forest supervisor to forest ranger.

DISTRICT 5.—Arthur T. Shay, Angeles, forest guard to forest ranger.

DISTRICT 6.—John D. Guthrie, forest supervisor to forest examiner. William O. Harriman and J. Fred McClain, deputy forest supervisors to forest rangers.



## RESIGNED.

FORESTER.—Henry S. Graves, Forester; Albert F. Potter, Associate Forester.

OPERATION.—Daniel D. Bronson, general inspector.

FOREST MANAGEMENT.—Edward S. Bryant, forest inspector.

LABORATORY.—Jenness B. Frear, engineer in forest products; Chas. B. Norris, assistant engineer in forest products; Carl F. Bull, mechanical draftsman; Mrs. Marie L. Smith, laboratory helper; Otto R. Stadelmann, computing clerk; Hazel Gray, messenger.

DISTRICT 1.—R. E. Bodley, Gallatin, forest supervisor. W. P. Hillman, Kaniksu, deputy forest supervisor. R. G. Merritt, Blackfeet; W. C. Latane, Deerlodge; W. M. Nagel and V. C. Sheffield, forest examiners. C. B. Baker, Kootenai, fire assistant. D. H. Clark, grazing assistant. E. C. Durgan, Absaroka; Ira N. Goss and O. B. Parker, Beartooth; D. B. Randolph and Sanford Shepherd, Beaverhead; A. R. Truman, Blackfeet; G. J. Gordon and W. M. Stoltz, Cabinet; W. J. McCarthy, Jefferson; F. W. Horrigan and E. I. Shaw, Missoula; G. M. Van Dyk, Pend Oreille; T. E. Norton and T. O. Paine, Custer; W. R. Schofield, forest rangers. Aleathea B. Howard, Madison; Agnes I. Mevig, Coeur d'Alene, forest clerks.

DISTRICT 2.—Albert L. Sweitzer, Rio Grande, forest supervisor. Charles L. Cecil, Black Hills, deputy forest supervisor. Adaline T. Morgan, Arapaho, clerk (stenographer). Harry J. King, Arapaho; Anthony C. Clements and Walter Osborn, Black Hills; Thomas H. Thurman, Gunnison; Frank Gray, Montezuma; Karl L. Janouch, Nebraska; Floyd E. Runyan, San Juan; Walter A. Wagner, Uncompahgre, forest rangers. Charles B. Gosorn, draftsman. Gertrude L. Kimmel, clerk.

DISTRICT 3.—Nelson F. Newman, surveyor. Helen D. Mahoney and Berenice M. Palmer, clerks (typewriters). Edna R. Hyre, clerk (stenographer). James H. Billingslea, jr., and David Scott Marks, Apache; Oscar F. Schaefer, Coconino; Ferry D. Lewis and Robert H. Zeiger, Datil; John H. Isbester, Gila; Barnard A. Hendricks and Edward A. Lamirand, Lincoln; Ray E. King and Fred H. Miller, Manzano; Walter Glen and Charles E. Moore, Santa Fe; Roy Cummins, Sitgreaves, forest rangers. Clyde E. Thomson, Coconino, scaler. Emanuel Fritz, Fort Valley, forest assistant. Virginia C. Bamber, Prescott, clerk (typewriter). Maude E. Wilson, Fort Valley, forest clerk.

DISTRICT 4.—Jacob B. Lafferty, Weiser, forest supervisor. John B. Barr, Weiser; Joshua A. Brower, Targhee; Samuel A. Buchanan, Minidoka; Louis R. Hillmon, Weiser; Roy Lee, Fishlake; Vernon O. Maw, Ashley; Ralph A. Taylor, La Sal; Earl Templeton, Humboldt; Hans A. Wickman, Manti, forest rangers. Zilla N. Sheperd, Weiser; Mae E. Williams, clerks (stenographers and typewriters).

DISTRICT 5.—Wm. E. Harris and Norman H. Sloane, Shasta, forest supervisors. Benjamin J. Hoffner, Sequoia; Albert W. Blair and John



Wesley Sitler, Shasta; Edwyn H. Markel, Tahoe; Frank W. Harley, Klamath; George M. Sadler, Trinity, forest rangers. Harvey J. Montgomery, Shasta, lumberman. Rose Hughes Leech, Angeles; Zitella Smith, Shasta, clerks (stenographers and typewriters). Mrs. Lura Spencer Gyllstrom, Cleveland; Ernest L. Herzinger, Inyo; Constantin L. Rixon, Santa Barbara, forest clerks. Frank Haynie, national forest inspector. Percy L. Day and David P. Godwin, national forest examiners. Fred D. Douthitt, grazing examiner. Don C. McLain, draftsman. May Wise, clerk (stenographer and typewriter).

DISTRICT 6.—Clyde A. Nettleton, Chugach; Harry N. Colter, Columbia; James Douglas Johnson, Deschutes; Ed. Tittle, Rainier; Richard Helm, Siskiyou; Walter G. Hellan, Tongass; Robert I. Peachey, Whitman; Oscar Pratt, Wallowa; Adolph Nilsson, forest rangers. Reginald A. Bradley and Daniel F. Brennan, Fremont, deputy forest supervisors. Cyrus J. Bingham, Malheur; Smith C. Bartrum, Umpqua, forest supervisors. Gerald H. Wenner, Ochoco; Abbott C. Read, Siuslaw, forest clerks. Francis S. Fuller, Olympic, forest assistant. Francis L. Downes, Santiam, clerk (stenographer and typewriter). Josiah M. Wyckoff, Tongass, clerk.

DISTRICT 7.—Andrew J. James, Arkansas, scaler. J. Grady Siler, jr., Savannah; Henry R. Keon, Ozark; M. F. Bohan, Wichita, forest rangers. Cecil V. Rummel and Eugenia W. Smith, Arkansas; Thomas E. Huffman, Natural Bridge, clerks. David A. Younger, Arkansas, unskilled laborer.

#### DISMISSED.

DISTRICT 1.—Mrs. E. A. Higgins, Cabinet, clerk.

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With deep regret announcement is made of the death of Warren M. Cooper, forest ranger, Oregon, February 19; Chauncey E. Bullen, forest ranger, Snoqualmie, February 27; Madeline N. Oakey, proofreader, laboratory, November 10; John W. Stratton, carpenter, laboratory, December 3; Marie A. Schach, draftsman, district 3, January 5.

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#### SERVICE PUBLICATIONS ISSUED.

*Department Bulletin 845.*—Production of Lumber, Lath, and Shingles in 1918.

*Department Circular 148.*—How Lumber is Graded.

